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The state of the s		Application Number	09/626,192	
TRÂNSMITTAL FÖRM		Filing Date	July 28, 2000	
FORM		First Named Inventor	Simkins, Barry A.	
(to be used for all correspondence after initial fi	iling)	Art Unit	2125	
		Examiner Name	Lee, Douglas	
Total Number of Donne in This Cubminsion	13	Attorney Docket Number	018563-003000US	

			ENCLOSURES (Otation)			
			ENCLOSURES (Check all that apply)	Communication		
	Fee Transn	nittal Form	Drawing(s)	After Allowance Communication to Technology Center (TC)		
	Fee	e Attached	Licensing-related Papers	Appeal Communication to Board of Appeals and Interferences		
	Extension of Express Ab Supplement Disclosure	nt/Reply er Final idavits/declaration(s) of Time Request bandonment Request otal Information Statement opy of Priority	CD (Reference Copies), Number of CD(s) Remarks The Commissioner is authorize	Appeal Communication to TC (Appeal Notice, Brief, Reply Brief) Proprietary Information Status Letter Other Enclosure(s) (please identify below): Return Postcard Fee Authorization (IDS Page 2)		
	Document(Account 20-1430.			
	Incomplete Re:	to Missing Parts/ Application sponse to Missing Parts ler 37 CFR 1.52 or 1.53				
		SIGNA	TURE OF APPLICANT, ATTORNEY, OF	R AGENT		
Firm		Townsend and Town	send and Crew LLP			
or Individu	ıal name	James M. Heslin	Reg. No. 29	9,541		
Signatu		YM				
Date		September 7, 20	04			
		<u> </u>	ERTIFICATE OF TRANSMISSION/MAIL	ING		
	I hereby certify that this correspondence is being deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on the date shown below.					
Typed	or printed n	ame Tiffany Wu		,		
Signat	ure	N.	9~.	Date Sept. <u>6</u> , 2004		

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Attorney Docket No.: 018563-003000US Client Reference No.: AT-00083

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

TOWNSEND and TOWNSEND and CREW LLP

Tiffany Wu

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:

BARRY A. SIMKINS

Application No.: 09/626,192

Filed: July 28, 2000

For: SYSTEMS AND METHODS FOR

FORMING AN OBJECT

Examiner: Douglas Lee

Art Unit: 2125

SUPPLEMENTAL INFORMATION

DISCLOSURE STATEMENT UNDER 37 CFR §1.97 and §1.98

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Sir:

The references cited on attached form PTO/SB/08A and PTO/SB/08B are being called to the attention of the Examiner. Electronic copies of the references are enclosed on 1 CD-ROM disk.

It is respectfully requested that the cited references be expressly considered during the prosecution of this application, and the references be made of record therein and appear among the "references cited" on any patent to issue therefrom.

The references cited in the accompanying PTO/SB/08A and PTO/SB/08B, were indentified by either or both parties in litigation between Align Technology, Inc., assignee of the above-referenced patent application, and Ormco Corporation in case no. SACV 03-16-GLT

BARRY A. SIMKINS .

Application No.: 09/626,192

Page 2

(ANX) before the U.S. District Court, Central District of California, Southern Division, as being

potentially relevant to the design, fabrication, and/or use of removable orthodontic appliances

and/or to the use of computers or other automatic means for calculating final or intermediate

tooth positions for orthodontic treatment.

As provided for by 37 CFR 1.97(g) and (h), no inference should be made that the

information and references cited are prior art merely because they are in this statement and no

representation is being made that a search has been conducted or that this statement encompasses

all the possible relevant information.

This IDS is being filed before the mailing date of the final Office Action or

Notice of Allowance.

Please charge the IDS fee of \$180 to Deposit Account No. 20-1430. Please

deduct any additional fees from, or credit any overpayment to, the above-noted Deposit Account.

Respectfully submitted,

James M. Heslin Reg. No. 29,541

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheet 1 of 10

-	Complete if Known
Application Number	09/626,192
Filing Date	July 28, 2000
First Named Inventor	Simkins, Barry A.
Art Unit	2125
Examiner Name	Lee, Douglas
Attorney Docket Number	018563-003000US

		Document Number			
Examiner Initials*	Cite No. ¹	Number Kind Code ² (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	AA	2,467,432	04-19-1949	Kesling	
	AB	3,660,900	05-09-1972	Andrews	
	AC	3,860,803	01-14-1975	Levine	
	AD	3,916,526	11-04-1975	Schudy	
	AE	3,950,851	04-20-1976	Bergersen	
	AF	4,014,096	03-29-1977	Dellinger	
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	AH	4,324,546	04-13-1982	Heitlinger et al.	
	Al	4,348,178	09-07-1982	Kurz	
	AJ	4,478,580	10-23-1984	Barrut	
	AK	4,504,225	03-12-1985	Yoshii	
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	AM	4,575,805	03-11-1986	Moermann, et al.	
	AN	4,611,288	09-09-1986	Duret et al.	
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_	AS	4,763,791	08-16-1988	Halverson et al.	
	AT	4,793,803	12-27-1988	Martz	
	AU	4,798,534	01-17-1989	Breads	
	AV	4,837,732	06-06-1989	Brandestini et al.	
	AW	4,850,864	07-25-1989	Diamond	
•	AX	4,856,991	08-15-1989	Breads et al.	
	AY	4,936,862	06-26-1990	Walker et al.	
	AZ	4,937,928	07-03-1990	van der Zel	
	BA	4,964,770	10-23-1990	Steinbichler et al.	•
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	ВС	5,011,405	04-30-1991	Lemchen	
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	BF	5,035,613	07-30-1991	Breads et al.	
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	BO	5,184,306	02-02-1993	Erdman et al.	
		0,104,300	1 02-02-1990	Liuman et al.	

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For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document.

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet 2 of 10

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First Named Inventor	Simkins, Barry A.
Art Unit	2125
Examiner Name	Lee, Douglas
Attorney Docket Number	018563-003000US

			U.S. PATENT D	OCUMENTS+	
Examiner Initials*	Cite No.1	Document Number Number Kind Code ² (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	BP	5,186,623	02-16-1993	Breads et al.	
	BQ	5,257,203	10-26-1993	Riley et al.	
	BR	5,273,429	12-28-1993	Rekow et al.	
	BS	5,278,756	01-11-1994	Lemchen et al.	
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	BY	5,395,238	03-07-1995	Andreiko et al.	
	BZ	5,431,562	11-11-1995	Andreiko et al.	
	CA	5,440,496	08-08-1995	Andersson et al.	
	СВ	5,447,432	09-05-1995	Andersson et al.	
	CC .	5,452,219	09-19-1995	Dehoff et al.	
	CD	5,454,717	10-03-1995	Andreiko et al.	
	CE	5,456,600	10-10-1995	Andreiko et al.	
	CF	5,474,448	12-12-1995	Andreiko et al.	
	CG	5,518,397	05-21-1996	Andreiko et al.	
	СН	5,533,895	07-09-1996	Andreiko et al.	
	CI	5,542,842	08-06-1996	Andreiko et al.	
	CJ	5,549,476	08-27-1996	Stern	
	СК	5,587,912	12-24-1996	Andersson et al.	
	CL	5,605,459	02-25-1997	Kuroda et al.	
	СМ	5,607,305	03-04-1997	Andersson et al.	
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_	СР	5,683,243	11-04-1997	Andreiko et al.	
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Examiner Cite No.1	Cite	For	eign Patent Doo	cument	Publication Date MM-DD-YYYY	Name of Patentee or	Pages, Columns, Lines, Where Relevant	
		Country Code ³	Number ⁴	Kind Code ⁸ (if known)_			Applicant of Cited Document	Passages or Relevant Figures Appear
	CT	EP	091,876	A1	10-19-1983	Duret		
	CU	EP	299,490	A2	01-18-1989	Steinbichler et al.		
	CV	EP	376,873	A2	07-04-1990	Shafir		
	CW	EP	490,848	B1	06-17-1992	Andersson et al.		
	СХ	EP	541,500	A1	06-12-1998	Andersson et al.		

Examiner	 Date	
Signature	 Considered	

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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*Kind Codes of U.S. Patent Documents at www.uspto.gov or MPEP 901.04.

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INFORMATION DISCLOSURE
STATEMENT BY APPLICANT

(use as many sheets as necessary)

Application Number
Filing Date
First Named Inventor
Art Unit
Examiner Name

	Complete if Known
Application Number	09/626,192
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First Named Inventor	Simkins, Barry A.
Art Unit	2125
Examiner Name	Lee, Douglas
Attorney Docket Number	018563-003000US

				FOREIGN PA	TENT DOCUME	ENTS		
Examiner Initials*	Cite No.1	For Country Code ³	eign Patent Docu Number ⁴	ument Kind Code ⁵ (<i>if known</i>)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
	CY	EP	731,673	B1	09-18-1998	Andersson et al.		
	CZ	EP	774,933	B1	05-28-1997	Oden et al.		
	DA	FR	2,652,256	A1	03-29-1991	Jourda		
	DB	FR	2,369,828	A1	06-02-1978	Suyehiro		
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	DD	wo	91/04,713	A1	04-18-1991	Jourda et al.		
	DE	wo	94/10,935	A1	05-26-1994	Andreiko et al.		
-	DF	wo	98/44,865	A1	10-15-1998	Andersson		
	DG	wo	98/58,596	A1	12-30-1998	Chishti et al.		

Examiner Signature	 Date Considered	



Substitute for form 1449B/PTO Complete if Known 09/626,192 Application Number INFORMATION DISCLOSURE July 28, 2000 Filing Date STATEMENT BY APPLICANT First Named Inventor Simkins, Barry A. Art Unit 2125 (use as many sheets as necessary) Examiner Name Lee, Douglas 018563-003000US Sheet 10 Attorney Docket Number

		NON PATENT LITERATURE DOCUMENTS	
Examiner Initials *	Cite No.1	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	т
	DH	ALEXANDER et al., "The DigiGraph Work Station Part 2, Clinical Management," JCO (July 1990), pp. 402-407.	
	DI	ALTSCHULER et al., "Laser Electro-Optic System for Rapid Three-Dimensional (3D) Topographic Mapping of Surfaces," <i>Optical Engineering</i> , Vol. 20(6) (1981), pp. 953-961.	
	DJ	ALTSCHULER et al, "Measuring Surfaces Space-Coded by a Laser-Projected Dot Matrix," SPIE Imaging Applications for Automated Industrial Inspection and Assembly, vol. 182 (1979), p. 187-191.	
	DK	ALTSCHULER et al., "Analysis of 3-D Data for Comparative 3-D Serial Growth Pattern Studies of Oral-Facial Structures, "Program and Abstracts of Papers, Feb. 1975, Journal of Dental Research, Vol. 54, IADR Abstracts 1979, 2 pages total.	
	DL	ALTSCHULER, "3D Mapping of Maxillo-Facial Prosthesis," AADR Abstract #607,1980, 2 pages total	
	DM	American Association for Dental Research, Summary of Activities, March 20-23, 1980, Los Angeles, CA, p. 195.	
	DN	ANDERSSON et al., "Clinical Results with Titanium Crowns Fabricated with Machine Duplication and Spark Erosion," <i>Acta Odontological Scandinavia</i> , vol. 47 (1989), pp. 279-286.	
	DO	BAUMRIND et al., "A stereophotogrammetric system for the detection of prosthesis loosening in total hip arthroplasty, Applications of Human Biostereometrics (NATO)," Proceedings of the Society of Photo-Optical Instrumentation Engineers, Vol. 166, July 9-13, 1978, pp. 112-123.	
	DP	BAUMRIND et al., "Mapping the Skull in 3-D, Reprinted from The Journal, California Dental Association, Vol. 48, No. 2 (1972 Fall Issue) 11 pages total.	
	DQ	BAUMRIND et al., "Seminars in Orthodontics," Seminars in Orthodontics, Vol. 7, No. 4 (Dec. 2001), p. 222.	
	DR	BAUMRIND, "A System for Craniofacial Mapping Through the Integration of Data from Stereo X-Ray Films and Stereo Photographs," An invited paper submitted to the 1975 American Society of Photogram. Symposium on Close-Range Photogram. Systems, University of III., Aug. 26-30, 1975, pp. 1-25.	
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	DT	BEGOLE et al., "A Computer System for the Analysis of Dental Casts," <i>The Angle Orthodontist</i> , Vol. 51 No. 3 (July 1981), pp. 253-259.	
	DU	BERNARD et al., "Computerized diagnosis in Orthodontics for Epidemiological Studies" (progress report), Abstracts of Papers, <i>Journal of Dental Research</i> ; Vol. 71, Special Issue March 1-14, 1992, pp. 28-36.	
	DV	BHATIA et al., "A Computer-Aided Design for Orthognathic Surgery," British Journal of Oral and Maxillofacial Surgery, Vol. 22 (1984), pp. 237-253.	
	DW	BIGGERSTAFF et al., "Computerized analysis of occlusion in the postcanine dentition," American Journal of Orthodontics, Vol. 61, No. 3 (Mar. 1972), pp. 245-254.	

Examiner Date Signature Considered

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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Sheet

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Art Unit	2125
Examiner Name	Lee, Douglas
Attorney Docket Number	018563-003000US

	0''	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item	
Examiner nitials *	Cite No. ¹	(book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	Т:
•	DX	BIGGERSTAFF, "Computerized Diagnostic Setups and Simulations," <i>The Angle Orthodontist</i> , Vol. 40, No. 1 (Jan. 1970), pp. 28-36.	
	DY	BRANDESTINI et al., "Computer Machined Ceramic Inlays: In Vitro Marginal Adaptation," Journal of Dental Research, Vol. 64/Special Issue/Abstracts, IADR/AADR Abstracts 1985, 1 page total.	
-	DZ	BROOK et al., "An Image Analysis System for the Determination of Tooth Dimensions from Study Casts: Comparison with Manual Measurements of Mesio-distal Diameter, Abstract of Papers, 1985, Dept. of Children's Dentistry and Orthodontics, <i>J Dent Res.</i> , March 1986, pp. 428-431.	
	EA	BURSTONE (interview), "Dr. Charles J. Burstone on The Uses of the Computer in Orthodontic Practice (Parts1 and 2)," <i>Journal of Clinical Orthodontics</i> , (Part 1) Vol. 8, No. 7, July 1979; (Part 2) Vol. 8, No. 8 pp. 539-551, Aug. 1979.	
	EB	BURSTONE et al., "Precision adjustment of the transpalatal lingual arch: Computer arch form predetermination," Am. Journal of Orthodontics, Vol. 79, No. 2 (Feb. 1981), pp. 115-133.	
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	EE	CHIAPPONE, "Constructing the gnathologic setup and positioner" J. Clin. Orthod., 14:121-133, 1980.	
	EF	COTTINGHAM, "Gnathologic clear plastic positioner" Am. J. Orthod., 55:23-31, 1969.	
	EG	CRAWFORD, "Computers in Dentistry: Part 1: CAD/CAM: The Computer Moves Chairside," "Part 2: F. Duret — A Man With A Vision," "Part 3: The Computer Gives New Vision- Literally," "Part 4: Bytes 'N Bites" The Computer Moves From The Front Desk To The Operatory, Canadian Dental Journal, vol. 54(9), (1988), pp. 661-666.	
	EH	CRAWFORD, "CAD/CAM in the Dental Office: Does It Work?" Canadian Dental Journal, Vol. 57, No. 2 (Feb. 1991), pp. 121-123.	
	EI	CROOKS, "CAD/CAM Comes to USC," USC Dentistry, (Spring 1990) pp. 14-17.	
	EJ	CURETON, "Correcting malaligned mandibular incisors with removable retainers" <i>J. Clin. Orthod.</i> , 30:390-395, 1996.	
	EK	CURRY et al., "Integrated Three-Dimensional Craniofacial Mapping at the Craniofacial Research Instrumentation Laboratory/University of the Pacific," Seminars in Orthodontics, Vol. 7, No. 4 (Dec. 2001), pp. 258-265.	
	EL	CUTTING et al., "Three-Dimensional Computer-Assisted Design of Craniofacial Surgical Procedures: Optimization and Interaction with Cephalometric and CT-Based Models," <i>Plastic and Reconstructive Surgery</i> , Vol. 77, No. 6 (June 1986), pp. 877-885.	
	EM	DCS Dental AG, "The CAD/CAM 'DCS Titan System' for Production of Crowns/Bridges" DSC Production AG, Jan. 1992, pp. 1-7.	

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		NON PATENT LITERATURE DOCUMENTS	
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	EN	DEFRANCO et al., "Three-Dimensional Large Displacement Analysis of Orthodontic Appliances," J. Biomechanics, Vol. 9 (1976), pp. 793-801.	
	EO	Dental Institute University of Zurich Switzerland, Program for International Symposium on Computer Restorations: State of the Art of the CEREC-Method, May 1991, 3 pages total.	
	EP	DenTrac Corporation, Dentrac document, pp. 4-13.	
	EQ	DURET et al, "CAD-CAM in Dentistry," Journal of the American Dental Association, Vol. 117 (Nov. 1988), pp. 715-720.	
	ER	DURET et al., "CAD/CAM imaging in dentistry," Current Opinion in Dentistry, Vol. 1 (1991), pp. 150-154.	
	ES	DURET, "The Dental CAD/CAM, General Description of the Project," Hennson International Product Brochure, Jan. 1986., 18 pages total.	
	ΕT	DURET, "Vers une prosthese informatisee," (English translation also attached), <i>Tonus</i> , vol. 75, (Nov. 15, 1985), pp. 55-57.	
	EU	ECONOMIDES, "The Microcomputer in the Orthodontic Office," JCO, (Nov. 1979), pp. 767-772.	
	EV	ELSASSER, "Some observations on the history and uses of the Kesling positioner" Am. J. Orthod., 36:368-374, 1950.	
· · ·	EW	FABER et al., "Computerized interactive orthodontic treatment planning," <i>Am. J. Orthod.</i> , Vol. 73, No. 1 (Jan. 1978), pp. 36-46.	
	EX	FELTON et al. "A computerized analysis of the shape and stability of mandibular arch form," Am. Journal of Orthodontics and Dentofacial Orthopedics, Vol. 92, No. 6 (Dec. 1987), pp. 478-483.	
	EY	FRIEDE et al., "Accuracy of Cephalometric Prediction in Orthognathic Surgery, "Abstract of Papers, Journal of Dental Research, Vol. 70 (1987), pp. 754-760.	
·	EZ	GIM-ALLDENT Deutschland, "Das DUX System: Die Technik" 4 pages total.	
	FA	GRAYSON, "New Methods for Three Dimensional Analysis of Craniofacial Deformity," Symposium: Computerized Facial Imaging in Oral and Maxilofacial Surgery, AAOMS Sept. 13, 1990, 3 pages total.	
	FB	GUESS et al., "Computer Treatment Estimates in Orthodontics and Orthognathic Surgery, "JCO, (April, 1989), pp. 262-28.	
-	FC	HEAVEN et al., "Computer-based Image Analysis of Artificial Root Surface Caries," "Automated Identification of Landmarks in Cephalometric Radiographs," Abstracts of Papers, <i>Journal of Dental Research</i> , Vol. 67, March 9-13, 1988, 2 pages total.	

ſ	Examiner	Date	
ı	Signature	Considered]

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Attorney Docket Number	018563-003000US

		NON PATENT LITERATURE DOCUMENTS	
Examiner Initials *	Cite No.1	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	т:
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Examiner	Date	
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Substitute for form 1449B/PTO INFORMATION DISCLOSUR STATEMENT BY APPLICANT

09/626,192 Application Number July 28, 2000 Filing Date Simkins, Barry A. First Named Inventor Art Unit 2125 ee, Douglas -003000US

Complete if Known

(c	ise as many sne	ets as	necessary)	Examiner Name	Lee, Dou
Sheet	8	of	10	Attorney Docket Number	018563-0

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Application Number	09/626,192		
Filing Date	July 28, 2000		
First Named Inventor	Simkins, Barry A.		
Art Unit	2125		
Examiner Name	Lee, Douglas		
Attorney Docket Number	018563-003000US		

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